

GLASS News



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Bi-lingual

CORNING AND SGD PHARMA ANNOUNCE JOINT VENTURE TO OPEN NEW GLASS TUBING FACILITY AND EXPAND ACCESS TO CORNING® VELOCITY® VIAL TECHNOLOGY IN INDIA

Corning Incorporated and SGD Pharma on June 8 announced a joint venture that includes the opening of a new glass tubing facility to expand pharmaceutical manufacturing in India and allows SGD Pharma to adopt Corning's Velocity® Vial technology platform.

Combining SGD Pharma's vial-converting expertise with Corning's proprietary glass-coating technology, the collaboration will enhance vial quality, improve filling-line productivity, and speed the global delivery of injectable treatments. SGD Pharma and Corning have broken ground on a new pharmaceutical glass tubing facility in Telangana, India. Together, the two companies will help drug makers respond to increasingly complex capacity and quality issues while meeting global demand for critical medicines.

"The partnership with Corning represents yet another step in our strategy to advance converting technology in the pharmaceutical industry and secure our supply chain. The introduction of Velocity Vials will contribute to the ongoing evolution of our offerings and services and will expand our portfolio of high-quality tubular glass packaging," said Mr. Olivier Rousseau, CEO SGD Pharma. "We

see an opportunity for the industry to improve drug filling quality and performance capabilities by transitioning to Corning's coated vial technology."

SGD Pharma joins a growing network of leading primary packaging manufacturers adopting Corning's cutting-edge coating technology. The joint venture expands Velocity Vials' manufacturing footprint, localizes its supply chains in India, and enables easier adoption of the technology by customers.

"Corning is advancing pharmaceutical glass technology to help our customers address their most pressing challenges – globally and locally," said Mr. Ron Verkleeren, Senior Vice President and General Manager of Corning's Life Sciences Market Access Platform. *"The joint venture with SGD Pharma supports our continued global expansion as we localize manufacturing for our customers. The collaboration also strengthens our leadership position in the industry and underscores our commitment to India's high-growth market."*

HEMAL THAKOR IS ONE OF TOP 100 GREAT PEOPLE MANAGERS

Mr. Hemal Thakor, Executive



SGD Pharma and Corning Incorporated on June 8 announced a new pharmaceutical glass tubing facility in Telangana under the joint venture, SGD Corning Technologies Pvt. Ltd. Telangana IT and Industry Minister Mr. K T RamaRao took part in ground-breaking ceremony of the new facility. The collaboration will combine SGD's Vial converting expertise and Corning's proprietary glass tubing technology.

Committee Member AIGMF and Chief Marketing Officer, PGP Glass Pvt. Ltd., was named as one of India's Top 100 Great People Managers by the Economic Times.

Mr. Thakor did his entire studies in Mombasa KENYA and on return to India did his Bachelors of Business Administration from Vallabh Vidyasagar in Gujarat. Later, he completed his MBA from SP Jain Institute of Management in Mumbai.

He joined Gujarat Glass Pvt. Ltd.,



(which was renamed as Piramal Glass Ltd. and now PGP Glass Pvt. Ltd.) in 1995 as a Management Trainee. Today, he has completed 28 years in the same company and Heads the Marketing function looking after verticals of Cosmetics, Food and Liquor.

WORLD'S BIGGEST GLASS COMPANIES RE-AFFIRM SUPPORT FOR GLASS FUTURES

The world's biggest glass companies have re-affirmed their commitment to reduce carbon emissions through continued support of Glass Futures as it opens the doors to its 165,000 sqft Global Centre of Glass Excellence.

Encirc, Guardian Glass, O-I Glass and Siemens were the 'founding members' of the not-for-profit when the idea of the Global Centre of Excellence was first conceived by Mr. Dave Dalton, CEO of British Glass.

They each invested in a powerful idea which has since attracted major government innovation funding and seen construction completion of the £54m Centre in St Helens near Liverpool.

Now, some 10 years after its conception, these founding Board Members continue to see the strong benefits from the ground-breaking research and innovation already being delivered by Glass Futures.

They are taking the first step towards reaffirming their long-term commitment to the organisation with plans for each to invest further funds on an annual basis. They will become new Strategic Members and invite others in the industry to join them.

Mr. Aston Fuller, General Manager



at Glass Futures said: *“To have our founders becoming new Strategic Members as we take over the completed Centre of Excellence is a testament to their ongoing vision and commitment over a decade.*

“Back then they were taking a punt on conversations about an idea. Something that could potentially benefit the whole sector in the long-term, but they (and us) had no way of knowing if we’d reach this point. But we have.

“Not only have we attracted funding for significant carbon emission reduction research trials using alternative fuels, but we’ve successfully built our new Centre.

“The dream is now a reality. And as we look towards our 30 tonne per day furnace and pilot line firing within the next 12 months, it’s only the beginning.”

To mark the next phase of Glass Futures, the organisation has launched the new level of Strategic Membership and updated its membership structure. It will operate on a credit-based system which guarantees members access to the facilities at the pilot plant on an annual basis.

Mr. Fuller added: *“We have a varied and supportive membership including*

many companies across the supply chain who have helped us get this far and as a not-for-profit organisation serving the energy intensive industries, our value is in our research and development into sustainable, low-carbon glass to support our members.

“Strategic Membership not only gives existing and new members more credits to carry out trials on our experimental furnace but also greater influence over collaborative project trials, with the potential to massively benefit organisations whose own strategic aims are led by reducing carbon emissions and environmental commitments to shareholders and customers.”

NEW PRESIDENCY ELECTED AT THE EUROPEAN CONTAINER GLASS FEDERATION ANNUAL GENERAL MEETING

FEVE – the European Container Glass Federation elected its Presidency team for the 2023-2025 term of office at its Annual General Assembly on Thursday 15th June.

Mr. Martin Petersson, CEO Ardagh Glass Packaging – Europe: one of the world's leading glass packaging manufacturers - has been elected President of the EU container glass federation.

Commenting on his appointment, Mr. Petersson said: *“I am honoured to take up this important role and look forward to contributing to FEVE’s work in collaboration with FEVE members, staff, and the national associations. We have challenging and exciting times ahead of us, but we are in a strong position to reach our sustainability goals and strengthen our industry’s Circular Economy model.*

He added: *“Glass is a material that has unique inherent sustainability benefits: it is a permanent material, endlessly recycled in a closed loop and it is inert, meaning that it protects the quality of products, it preserves their taste, and guarantees safety for consumers’ health. It is also uniquely versatile in adding value and premium positioning to products. However, all these qualities are often taken for granted in the marketplace. We need to be more proactive in defending and promoting glass.”*

Mr. Martin Petersson succeeds Mr. Vitaliano Torno, O-I Glass President Business Operations & O-I Europe, who led the association for the previous two years. *“Vitaliano did a great job in navigating the federation through recent years, marked by the global pandemic and unforeseeable market dynamics, but he also managed to maintain a united industry in shaping a common vision to face the major challenge of climate neutrality”*, commented Mr. Petersson.

The FEVE members also elected Mr. Michel Giannuzzi, Chairman of the Board of Verallia, as Vice-President. Mr. Giannuzzi commented: *“Our industry is at a crucial crossroad on the path to the future. We should not be afraid to invest in the sustainability assets of our business model to secure our future as packaging leaders. I am looking forward to supporting Martin and the sector over the next two years*

in the drive to address climate change and the sustainability agenda.”

AIGMF AT GLASSPRINT 2023

GlassPrint 2023 conference and exhibition, a packed two-day



schedule of technical presentations and networking opportunities was held on April 25-26, 2023 at The Radisson Blu Scandinavia Hotel, Düsseldorf, Germany. The event saw an international audience of glassmakers, decorators, end-users, OEMs, suppliers and brand owners.

Decoration is a key process in the manufacture of architectural, automotive and hollow glass, and GlassPrint 2023 unveiled the latest trends and developments for enhancing end products, cutting production costs and making processes more efficient.

Mr. Rajesh Khosla, Sr. Vice President AIGMF and CEO / President AGI Greenpac participated as an active member from India.

Highlights of the program included: An extensive series of technical presentations by specialist speakers covering digital and screen processes that detailed the latest cutting-edge technologies for decorating all types of glass; A series of keynote speeches by industry figureheads from leading bodies such as BV Glas, FEVE, Glass for Europe and Messe Düsseldorf/glasstec; Networking events and a tabletop exhibition displaying the latest advances in inks, pre-press

technology, printing equipment and supplies.

The expanded conference programme was supported by intervals dedicated to the complementary tabletop exhibition

area, and at the end of the first day delegates benefited from networking with peers and suppliers during an evening dinner.

The event was co-organised by Glass Worldwide (preferred international media partner of the AIGMF) and The European Specialist Printing Manufacturers Association (ESMA).

SAD DEMISE OF PROF. (Dr.) A. K. BANDYOPADHYAY



Prof. (Dr.) A. K. Bandyopadhyay, Ex-Principal, Government College of Engineering and Ceramic Technology, Kolkata and Member Editorial Board, KANCH passed away on June 28 at Kolkata.

Prof. Bandyopadhyay was 73 years old and was keeping unwell for the last few months. He was associated with KANCH since 2012.

KARL LENHARDT - A PIONEER OF GLASS PROCESSING LEAVES THE STAGE

If there is a need for a prime example of the oft-cited success story “From a one-man business to a world market leader”, then one may gladly look back on the life’s work of Mr. Karl Lenhardt. The company founder and Managing Director of the former LenhardtMaschinenbau GmbH (now Glaston Germany GmbH) in Neuhausen-Hamberg in southern Germany has passed away at the age of 82.

“Glaston Corporation and employees mourn the loss of a down-to-earth, conscientious, responsible and visionary entrepreneur,” says Mr. Anders Dahlblom, CEO & President of Glaston Corporation. Mr. DietmarWalz, Senior Vice President of Glaston’s Insulating Glass Business Unit adds, *“With Karl Lenhardt, we are losing a personality for whom people were always at the center of his thoughts and actions. For him, the company’s success was based not only on his inventive thinking but predominantly on the personal commitment and expertise of his loyal, long-standing employees.”*

Mr. Karl Lenhardt’s motto was “An entrepreneur is one who takes action. When he took the courageous step into self-employment in 1966 at the age of 27, no one could have guessed that 36 years later, on the occasion of his retirement in 2002, he would hand over a medium-sized mechanical engineering company with 300 employees at the time, which is still considered one of the world market leaders in the field of glass processing. With his invaluable wealth of ideas, he is still considered one of the pioneers in glass processing today. The current process for manufacturing insulating glass for windows and facades was



developed by him. More than 150 patents were based on his inventive genius, including the TPS® technology he introduced to the market in 1995 and still the most flexible and sustainable insulating glass production technology worldwide.

Mr. Lenhardt has loved bearing responsibility for his employees, customers, business partners and his company all these years. It was not always easy for him to successfully assert himself in the interplay of circumstances. But his persistence in learning from mistakes and constantly improving, as well as his motivational skills, helped him develop the company successfully.

Glaston is the glass processing industry’s innovative technology leader supplying equipment, services and solutions to the architectural, automotive, solar energy, and display industries. The company also supports the development of new technologies integrating intelligence into glass. It is committed to providing its customers with both the best know-how and the latest technologies in glass processing, with the purpose of building a better tomorrow through safer, smarter, and more energy-efficient glass solutions. Glaston operates globally with manufacturing, services and sales offices in nine countries. Glaston shares (GLAIV) are listed on NASDAQ Helsinki Ltd.

GLASS FUTURES AND ITS MEMBERS TO CONTINUE LEADING THE DECARBONISATION OF ENERGY INTENSIVE INDUSTRIES THANKS TO £18M OF GOVERNMENT FUNDING

Glass Futures, a disruptive research technology organisation, will continue to find solutions for decarbonising energy intensive industries thanks to £7m funding and £11m for its members from the UK Government’s Department for Energy, Security and Net Zero.

The not-for-profit, which opened its new £54m Global Centre of Excellence in St Helens in June, will be involved in three projects to pave the way for the glass and ceramic industries to drastically cut carbon emissions.

Through investigations into 100 per cent hydrogen, low-cost biofuels and electrical boosting, Glass Futures will partner with its members across the ceramic and glass sectors to drive a smoother, faster transition from fossil fuels.

Electric boosting has been identified by British Glass as having the potential to reduce UK CO₂ by 56% annually. Innovation could offer up to 200 MWH load balancing capacity to the UK’s electrical grid providing increased energy resilience. This project will model and develop an optimised approach to deploying electric melting by exploring super boosted electric furnaces to hopefully pave the way for 40-50 per cent boost capability for conventional glass furnaces in the future. Thereby, providing a smoother, quicker transition to super-boost hybrid furnaces by 2040.

Glass Futures will install an electric-boost system onto its 30-tonne a day pilot plant in its Centre of Excellence

to assess melting efficiency and the impact of convection currents, product quality and seed count (the number of micro-bubbles) within glass. Guardian Glass, a founding member of Glass Futures, will run a series of models to understand the most beneficial positioning of electrodes for up to 60 per cent electric-boost. Encirc, another founding member of GLF, is working to develop automated techniques and control tools, which are capable of rapidly switching between combustion and electric.

The project will also involve network operators E.ON and National Grid to assess the timescales and costs of upgrading UK grid networks to enable glass plants to transition to electric-hybrid furnaces.

Building on research carried out by Glass Futures for the UK Government (due to be published shortly) that reveals lower cost, renewable, biofuels have the potential to switch UK glass and ceramic sites from natural gas, this project will explore a variety of economically and technology attractive biofuels for a range of industrial glass and ceramic furnace sites. Some of the world's largest glass manufacturers and Glass Futures members O-I, Ardagh and Encirc will trial biofuels on their glass plants. Pilkington UK, part of the NSG Group will also trial biofuels on their float glass plant and DSF refractory

manufacturer on their ceramics site with a furnace.

The availability, economics and sustainability of low-cost biofuels will be explored as well as compatibility with Carbon Capture, Usage and Storage (CCUS) technologies.

This project will demonstrate fuels that can provide a quick, economical route to decarbonising existing furnaces/kilns as well as a longer-term route to carbon negative industrial manufacturing using CCUS.

Following on from an IFS Phase 1 feasibility project which saw Glass Futures fire 100 percent hydrogen successfully on its combustion test rig, it will work alongside the British Ceramics Consortium including 16 partners across 8 sectors of the ceramics industry (clay brick, clay roof tiles, clay drainage pipes, table/giftware, wall/floor tiles, sanitaryware, refractories and technical/advanced ceramics) to demonstrate 100 percent hydrogen-firing technologies for the two main types of kiln used across 150+ manufacturing sites.

Most ceramic kilns are fired using fossil fuels, collectively emitting 1.2Mt of CO₂ per year, 60 per cent of which comes from the combustion of natural gas to heat kilns. As such hydrogen has the potential to reduce UK emissions by up to 780 kt CO₂ per year.

Mr. Richard Katz, CEO of Glass Futures, said: "Some ten years after the idea for Glass Futures was conceived it's fantastic to see such progression and the opening of our Global Centre of Excellence this summer. In addition, we have secured over £7m of funding directly and £11m for our members to really put our industrial scale test furnace to use. Without government funding like this much of our groundbreaking research to date wouldn't have been possible.

This new hydrogen project directly addresses the technological gaps we identified in the feasibility stage so we can now fully develop and assess the technical, economic, and environmental feasibility of hydrogen technologies.

Similarly, there is a need to investigate electric boosting and any short-term commercial benefits. The Glass industry operates furnaces that are continually running with long-operation lifetimes, there simply isn't the time or money to trial new fuel technologies that might not work.

This is the exact reason Glass Futures, and our new Centre of Excellence exists – to bring together glass and foundation industries, united by the aim of decarbonisation, with academia to trial innovative, technologies and solutions on an industrial scale."

He added: "And aside from our hydrogen and electric projects, demonstrating the



viability of low-cost biofuels will offer solutions to off-cluster manufacturing sites worldwide where the cost of developing the necessary infrastructure to provide low carbon fuels like hydrogen and electricity are likely to be prohibitive but there are large amounts of local bio-derived waste streams in abundance.”

BOROSIL RENEWABLES UNIT RAMP UP GERMAN SOLAR GLASS CAPACITY

Borosil Renewables solar glass capacity of its German unit, GMB Glasmanufaktur Brandenburg GmbH, has increased to 350 tons per day (tpd) from 300 tpd, following the modification of its furnace.

The company said the life expectancy of the furnace has increased due to the modification. Due to the implementation of certain advanced processes and technologies during the cold repair, GMB’s production capacity has also increased from 300 tpd to 350 tpd. The manufacturer said it expects the modification to result in substantial savings in energy consumption.

In January, Borosil Renewables began expanding its solar panel glass manufacturing capacity in India to 1,000 tons per day by starting trial production at its third solar glass furnace, which has a capacity of 550 tons per day. With 1,000 tons per day of capacity, it can supply solar glass for 6 GW of solar module production per year.

The company’s other two furnaces in India have production capacities of 240 tons per day and 210 tons per day.

OPENING UP NEW OPPORTUNITIES WITH LAMINATED GLASS

“We saw the move into laminating glass as an exciting

opportunity to explore. It gives us an open door to many new areas, such as security, acoustic and decorative glass. After thoroughly reviewing six lines, we chose Glaston’s ProL lamination thanks to its convection heating and simplicity,” said Consolidated Glass Corporation’s Mr. Brad Bartley, General Manager, and Ms. Lindsey Merryman, Lamination Line Program Manager.

Consolidated Glass Corporation is no newcomer to diamond-standard interior glass nor making larger transitions to stay ahead of the game. Now being led by the founding family’s fifth-generation president, the company started in 1967 in New Castle, Pennsylvania, fabricating the then fashionable jalousie doors and windows formed with multiple parallel panes of glass. It made a significant expansion in 1994 with its first tempering furnace to supply store fixtures, high-end shower doors and enclosures.

In 2015, Consolidated Glass purchased its second tempering line, a Glaston RC Series, to be able to keep up its outstanding five- to ten-day lead times and push into the lucrative office partition market.

The same spirit of growth and

expansion into new glass processing areas led the company to venture into laminated glass in 2021. This meant a new 15,000 sq. ft. building and automated lamination line.

“We reviewed six different lines, comparing price and performance,” Mr. Brad recalls. “We were familiar with Glaston’s background and knew the technology they bring to the tempering world. That was important to us.” But what caught his attention most was the convection heating system used on the ProL line as opposed to the infrared (IR) heating systems that most competitors use.

“For me, just the simplicity was impressive. And when you’re investing that much in new technology, you want to know that the supplier is highly experienced in that area. I also spoke with close friends in the industry who praised Glaston’s lamination technology,” he says.

“Our entire team is very excited about the quality of laminated glass we have produced. It’s beautiful!” Ms. Lindsey said “We’ve got a lot of great people working with us who are definitely up for the challenge. They’re willing to learn and work hard. So, we’re getting used to the lamination line and are continuing to add to our knowledge each day.”



SPECIAL CORRESPONDENT KANCH PREM MALHOTRA CELEBRATES 52 YEARS IN THE GLASS INDUSTRY

Mr. PremKumar P Malhotra has served the Indian glass industry with grace and distinction over the last 51 years.

Over the last 5 decades he has worked on over a hundred Indian glass projects across all sectors. He has been instrumental in putting Indian glass technology on the world map as a leader. The level of automation in his projects have been second to none across the globe. His innovative designs have helped lower energy costs while also reducing capital expenses, hence improving the environment friendliness of the Indian glass industry.

At the age of 73, he is currently passionately executing 10+ active projects across India and overseas. In addition, he continues to mentor several folks in the glass industry to continue his legacy.

Mr. Malhotra represents Sanjin Bucher Emhart Glass in India that is 100% owned by Bucher Emhart Glass, world leader in manufacturing I S Machines and allied equipment for glass industry.

GLASS & GLAZING KNOWLEDGE FORUM (GGKF) MEET AT DELHI

The 11th meeting of the GGKF was held at the Muse Sarovar Portico, Delhi on July 8. The forum meets regularly under its united efforts to help Glass Fraternity work on the common issues, including the CSR objectives for the overall benefit of Industry and Society at large.

Centered around main discussions on the Training, Workshop's, National



Building codes; members were of the view to ascertain and establish a training center for Glass and Glazing at DELHI NCR.

The main vision of the Centre will be to up-skill the existing workforce to provide sustainable installation methodology with latest technology to efficiently utilize resources for the Construction, Products and Services mainly for the Glass and Glazing industry. Strengthening of Industry and Academic tie-up was also discussed.

GGKF comprises of the following industry associations: FOSG (Federation of Safety Glass), GSI (Glazing Society of India), CCPS (Confederation of Construction Products and Services), UWDMA (uPVC Window & Door Manufacturers Association), Glass Academy and AIGMF (The All India Glass Manufacturers' Federation).



HEINEKEN LANKA LAUNCHES ITS FIRST SCREEN-PRINTED & RETURNABLE GLASS BOTTLE IN ASIA PACIFIC

PGP Glass Ceylon PLC, the sole manufacturer of glass bottles for Food and Beverages in Sri Lanka and HEINEKEN Lanka Limited, a wholly owned subsidiary of HEINEKEN N.V., proudly announced a milestone for Sri Lanka's innovation and sustainability agenda with the launch of the 625 ml reusable bottle incorporating screen printing technology.

Launched in the presence of Her Excellency Ms. Bonnie Horbach, Ambassador of the Netherlands to Sri Lanka and the Maldives, the bottle is sourced and manufactured end-to-end in Sri Lanka, incorporating PGP's cutting-edge screen-printing technology, which is considered a first for HEINEKEN within the Asia Pacific region. The technology can reduce plastic or paper-based labelling, and consumers can be encouraged to participate in waste reduction efforts by having a returnable bottle.

Mr. Sanjay Jain, Executive Director/ COO PGP Glass Ceylon PLC, said, "We are happy to be associated with the launch of innovative product offerings capable of revolutionizing circularity and sustainability in Sri



Lanka. This collaboration showcases our commitment to innovative and sustainable packaging solutions, which is a long-standing need for the country, as we recognize the significance of contributing to responsible consumption in Sri Lanka. The investment required for screen printing technology on glass bottles is considerable. However, its positive effects on the planet are far-reaching. As a socially and sustainability-conscious organization, we are proud to do our part through a shared commitment to the national movement on uplifting its sustainable economy.”

Ms. Maud Meijboom-van Wel, Managing Director, HEINEKEN Lanka Limited, said, “As an innovative and pioneering company that is present in over 190 markets globally, our Brew a Better World vision for 2030 raises the bar and enables faster progress towards a net zero, fairer and healthier world. These ambitions are woven into EverGreen, our balanced growth strategy, and puts sustainability and responsibility at the centre of everything we do. In line with this vision, we have already installed a water treatment plant at our brewery and are also using renewable biomass energy as part of our net zero efforts. The launch of the reusable and screen printed 625 ml bottle for our flagship brand is our latest initiative, and I take this opportunity to appreciate PGP Glass Ceylon PLC for their trusted partnership and to

of the Netherlands to Sri Lanka and the Maldives, said, “Innovation in sustainability is always an exciting agenda for us, and there is no better time to act than the present. As Sri Lanka continues its momentum of economic recovery, it is equally important to achieve business excellence in sustainability and circularity. We continue the drive to promote responsible business conduct (RBC) as part of the European Union. Conforming to global sustainability standards will be mandatory in the upcoming years. Sustainable value chains will generate competitive advantages, and for Sri Lanka, early entry into this sphere could be the all-important difference manufacturers could make in outplaying the competition and staying ahead of the game. We appreciate the initiatives taken by PGP Glass Ceylon PLC and HEINEKEN Lanka Limited in this regard and look forward to further innovation in sustainability and circularity.”

PROF. ARUN VARSHNEYA DELIVERS THE NELSON W. TAYLOR AWARD LECTURE

Society of Glass Technology President Professor Arun Varshneya delivered the Nelson W. Taylor Award Lecture of the Penn State University on April 20. The Lecture was entitled, “Technical Glass Products in the Service of Humans”

Her Excellency, Bonnie Horbach, Ambassador of the Netherlands to Sri Lanka and the Maldives for gracing us with her presence and support. “

Guest of honour, Ms. Bonnie Horbach, Ambassador

Prof. Varshneya is also President of Saxon Glass Technologies, Inc. and Professor Emeritus of glass science and engineering, Alfred University.

The Nelson W. Taylor Lecture Series in Materials Science and Engineering honors the memory of Professor Nelson W. Taylor (1869-1965) who was head of Penn State’s Department of Ceramics from 1933-1943. During his tenure as departmental head, Dr. Taylor refined the ceramics undergraduate curriculum, strengthened the graduate program, expanded ties with industry, and was able to attract important scientists (for example Woldemar A. Weyl) to the faculty. He is recognized as the individual most responsible for establishing the College of Earth and Mineral Sciences as a major center for ceramics research. The Nelson W. Taylor Lecture Series was established in 1969, and has consistently attracted scientists of international prominence■



(News Source: AIGMF Research Team / World Wide Web)

The award memento depicts “Nittany Lion” which is the mascot for Penn State.

On the right is Professor Susan Sinnott, Head, Dept of Materials Science & Engineering at Penn State University presenting award to Prof. Arun Varshneya.

WORLD ENVIRONMENT DAY CELEBRATED AT AHMEDABAD

Parallel to the Executive Committee and at the maiden meeting at Ahmedabad, the AIGMF program saw presentations on: Cullet Sorting Technologies, Air Quality in Glass Manufacturing Units and Hydrogen as feedstock for manufacturing of Clear Glass.

President AIGMF Mr. Sanjay Agrawal thanked Mr. Purvish Shah, Hon. Treasurer AIGMF and Director Gopal Glass Works Ltd., for taking the lead of holding this special event on their successful setting up of a green field project on Solar Glass at Gujarat under the name M/s Gobind Glass and Industries Ltd. Team Members of M/s Gopal Glass Works Ltd., made some excellent meeting arrangements at the DoubleTree by Hilton, Ahmedabad, which was appreciated by everyone.

Mr. Kartik Morar, V&K Recycling Co., an Affiliate Member of the AIGMF made the presentation on cullet sorting technologies by citing the proper case studies.



Mr. Deepak Gahlowt, Practicing Architect (CCPS) gave a presentation on air quality by showing photos of some of his PAN-India projects and Secretary of the Confederation of Construction Products and Services





Mr. Gaurav Sharma, Technical Advisor, Green Hydrogen Development at Indo-German Energy Forum (IGEF), Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, GIZ office gave a presentation



The All India Glass Manufacturers' Federation
Executive Committee Meeting



on Hydrogen set up for glass manufacturing units.

To appropriately mark the event, glass jar bottles made out of 100% recycled glass at the recycling plant installed by M/s V&K Recycling at M/s Sunrise



Glass Industries Pvt. Ltd., were presented by Mr. Gaurav Thakkar, Mr. Hargun Bhambani and Mr. Kartik Morar to President AIGMF Mr. Sanjay Agarwal and Treasurer AIGMF Mr. Purvish Shah; as well as a bottle each was gifted to all participants.

The Members were served with an excellent variety of lunch and the program concluded with high tea.

A special Evening was organised at 'Vishalla' an Authentic village set up under Natural and Eco-Friendly Ambience with a restaurant serving



premium quality Gujarati cuisine over folk art & entertainment and a puppet show. Vishalla prides itself on its presentation of Indian culture and tradition in its village-like environment with its museum of old utensils known as Vechaar.

Vechaar is the only museum of its kind in the world, displaying such a precious collection of utensils. A walk around the hut-like museum makes one's heart skip a beat, marveling at the inimitable beauty of these utensils of old. These utensils have been handed down through the changing seasons and times, over the years.



It was decided that the next Executive Committee meeting along with AGM will be held at Delhi on August 26 ■





Select photos of the event and presentations are available at <https://aigmf.com/past-events.php>





The All India Glass Manufacturers' Federation

in Partnership with:



presents

14th International Conference on:

“Decarbonization for the Sustainable Glass Industry”

15 September 2023

at Dress Circle (above The Grande), Bombay Exhibition Center, Goregaon (E), Mumbai, INDIA

TIME (hrs.)	TOPIC/s	COMPANY	SPEAKER
1000	Registration / Tea / Coffee		
1045	Opening Address By Mr. Sanjay Agarwal , President AIGMF Introduction of Speakers and Need for Decarbonization By Mr. Dave Fordham , Publisher, Glass Worldwide magazine and Honorary Member AIGMF		
1100	Accelerating International Capability for a Circular Economy	GLASS FUTURES Ltd.	Mr. Neil Butler Global Innovation Lead
1120	The Future of Glass Furnaces in a Decarbonized world	FIC (UK) Ltd.	Mr. Steve Burns Technical Manager
1140	New Melting Technologies Require Updated Refractory Monitoring Methods	PANERATECH	Mr. Fred Aker Vice President
1200	All-electric forehearths and the role they play in a carbon neutral glass manufacturing industry of the future	ELECTROGLASS	Mr. Grahame Stuart Project Engineer
1220	In-Furnace Thermal Imaging for Process Optimization for Energy Reduction and Asset Protection	AMETEK Land	Mr. Neil Simpson Consultant
1240	Your Vision for Sustainable Glass Melting - Our Tools	EMISSION by SORG Group	Mr. Matthias Haas Associate Director
1300	QUESTION ANSWER SESSION Moderators: Mr. Dave Fordham & Prof. A S Rao , Head, Department of Applied Physics, Delhi Technological University and Member Editorial Board of KANCH (quarterly journal of AIGMF)		
1310	Wrap-up By Mr. Shreevar Kheruka , Vice President AIGMF and Vice Chairman & Managing Director, Borosil Ltd.		
1315	Presentation on glasstec 2024 By Mr. Lars Wismer , Director Occupational Safety & Health / Glass Technologies, Messe Düsseldorf GmbH		
1340	Vote of Thanks By Mr. Rajesh Khosla , Sr. Vice President AIGMF and CEO / President AGI Greenpac		
1345	Networking Lunch*		

*Participation is free, however, eco-kit bags, glass mementoes and lunch have a registration fee payable, with details given overleaf.

Program as on July 16



The All India Glass Manufacturers' Federation

in Partnership with:



PARTICIPATION: Free of charge

However, those requiring an official kit bag, glass mementoes and lunch may register under the following:

Delegation Fee	Indian Companies (Rs.)	Foreign Companies (US\$)
Main Delegate	4000	150
Other Delegates	2000	100
Corporate (Main delegate + 4 delegates)	10000	350

Cheque payable to "The All India Glass Manufacturers' Federation", at New Delhi may be sent to Secretary AIGMF, 812, New Delhi House, 27 Barakhamba Road, New Delhi – 110 001.

Payment can also be remitted through wire transfer. Our bank details are as under:

(Deposit cash or make NEFT- online payment)

Account No. : 0411156983
 Name : The All India Glass Manufacturers' Federation
 Bank : Kotak Mahindra Bank
 Branch : G-39, Connaught Circus, New Delhi
 IFSC Code : KKBK0000214
 Swift Code : KKBKINBBCPC

A copy of bank advice may please be sent to AIGMF Secretariat for reconciliation.

REGISTRATION PERFORMA
 (to be sent to info@aigmf.com)

S. No.	Company / Organisation	Participant/s (Name, Designation, Address, Tel, E-mail)
1.		
2.		

July - September 2023 Issue

will be a special issue for wide distribution at Glasspex and Glasspro exhibitions. It will also carry a detailed coverage of the Executive Committee and Annual General Meetings; as well as coverage of the Annual Awards to Industry and Youth, Technical Articles, Glass News, other supported Events and more.

To book advertisement space, mail to info@aigmf.com by August 25.

KANCH

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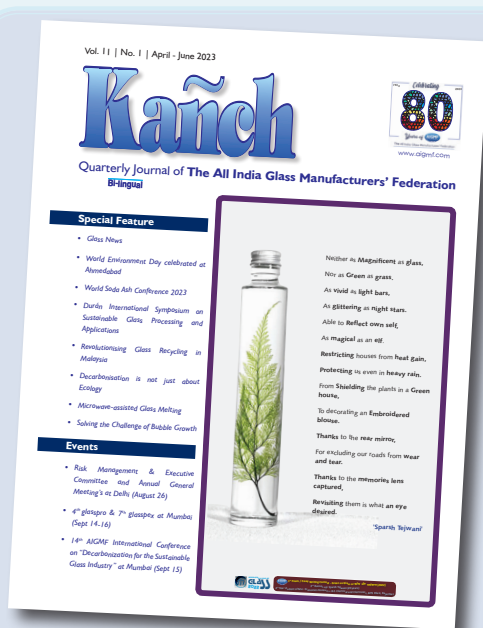
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